TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-01-22-01** **Date: 24-01-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 4th, 5th and 6th cross roads and surrounding areas in A K Colony Doddabommasandra in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/ 34 /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-18
Sample ID No	:	2018-01-22-01/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	22-01-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100.0	100
53	985	985	9.85	90.2	80-100
26.5	1498	2483	24.83	75.2	55-90
9.5	1955	4438	44.38	55.6	35-65
4.75	1925	6363	63.63	36.4	25-55
2.36	1497	7860	78.60	21.4	20-40
0.425	1130	8990	89.90	10.1	10-25
0.075	899	9889	98.89	1.1	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	22.17%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-
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All information Furnished by Customer/ Representative
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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Format No: CP/TR/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-01-24-02** **Date: 26-01-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 4th, 5th and 6th cross roads and surrounding areas in A K Colony Doddabommasandra in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/ 34 /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-01-18
Sample ID No	:	2018-01-24-02/01
Sample Type	:	ACC Cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	25-01-18

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.44	–
2	Finess by Air permeablity method (m^2/kg, Min)	275.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 90 days from the date of issue of test certificate

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Format No: CP/TR/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-01-24-02** **Date: 22-02-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 4th, 5th and 6th cross roads and surrounding areas in A K Colony Doddabommasandra in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-01-18
Sample ID No	:	2018-01-24-02/01
Sample Type	:	ACC Cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	25-01-18

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm2	Not less than 37 N/mm2
3	28 Days	56.0N/mm^2	Not less than 53 N/mm^2

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-24-02** **Date: 27-01-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 4th, 5th and 6th cross roads and surrounding areas in A K Colony Doddabommasandra in Ward no.10
Agency	:	Executive Engineer, KRIDL, #280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	24-01-18
Sample ID No	:	2018-01-24-02/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-24-02** **Date: 27-01-18**

Sample ID No : 2018-01-24-02/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.55	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.22	–

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-24-02** **Date: 27-01-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 4th, 5th and 6th cross roads and surrounding areas in A K Colony Doddabommasandra in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-01-18
Sample ID No	:	2018-01-24-02/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-01-18

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-24-02** **Date: 27-01-18**

Sample ID No : 2018-01-24-02/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.6**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.1**	
3	Specific Gravity	**2.66**	–
4	Bulk Density(Loose) (Kg/l)	**1.54**	–
5	Bulk Density(Compacted) (Kg/l)	**1.57**	–
6	Water Absorption(%)	**0.25**	–
7	Aggregate crushing Value(%)	**22.5**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**21.9**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-01-24-02** **Date: 27-01-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 4th, 5th and 6th cross roads and surrounding areas in A K Colony Doddabommasandra in Ward no.10 (Doddabommasandra),
Agency	:	Executive Engineer, KRIDL, #280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-01-18
Sample ID No	:	2018-01-24-02/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	24-01-18
Total weight taken	:	1000 grams

AEE (VRP) SD

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	165	247	24.7	75.3	60-95	75-100	85-100	95-100
4	1.18 mm	177	424	42.4	57.6	30-70	55-90	75-100	90-100
5	600 micron	182	606	60.6	39.4	15-34	35-59	60-79	80-100
6	300 micron	177	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	134	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-01-24-02** **Date: 27-01-18**

Sample ID No : 2018-01-24-02/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.85	_
2	Specific Gravity	2.58	_
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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Format No: CP/TR/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-02-03** **Date: 05/02/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 4th, 5th and 6th cross roads and surrounding areas in A K Colony Doddabommasandra in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-02-18

Sample ID No : 2018-02-02-03/01

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

AEE (VRP) SD

Date of test : 05/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	29/01/2018	05/02/2018	150.32 X 150.34 X 150.35	22599	8.324	388.7	17.2	17.1
2	Cement Concrete Pavement	M20	29/01/2018	05/02/2018	150.34 X 150.38 X 150.39	22608	8.342	393.4	17.4	
3	Cement Concrete Pavement	M20	29/01/2018	05/02/2018	150.29 X 150.41 X 150.30	22605	8.322	379.8	16.8	

Note:

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Quality Manager

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Format No: CP/TR/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-02-03** **Date: 26/02/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 4th, 5th and 6th cross roads and surrounding areas in A K Colony Doddabommasandra in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-02-18

Sample ID No : 2018-02-02-03/02

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/02/2018

AEE (VRP) SD

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	29/01/2018	26/02/2018	150.30 X 150.32 X 150.35	22593	8.324	503.8	22.3	21.8
2	Cement Concrete Pavement	M20	29/01/2018	26/02/2018	150.30 X 150.38 X 150.31	22602	8.352	476.9	21.1	
3	Cement Concrete Pavement	M20	29/01/2018	26/02/2018	150.23 X 150.21 X 150.33	22566	8.302	494.2	21.9	

Note:

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Quality Manager

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Format No: CP/TR/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-02-02-03** **Date: 05/02/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 4th, 5th and 6th cross roads and surrounding areas in A K Colony Doddabommasandra in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-02-18
Sample ID No	:	2018-02-02-03/03
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/02/2018

AEE (VRP) SD

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	29/01/2018	05/02/2018	150.37 X 150.22 X 150.35	22589	8.368	368.2	16.3	16.6
2	Cement Concrete Pavement	M20	29/01/2018	05/02/2018	150.31 X 150.32 X 150.30	22595	8.349	381.8	16.9	
3	Cement Concrete Pavement	M20	29/01/2018	05/02/2018	150.33 X 150.37 X 150.30	22605	8.382	373.0	16.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-02-03** **Date: 26/02/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 4th, 5th and 6th cross roads and surrounding areas in A K Colony Doddabommasandra in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-02-18

Sample ID No : 2018-02-02-03/04

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/02/2018

AEE (VRP) SD

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	29/01/2018	26/02/2018	150.48 X 150.44 X 150.35	22638	8.384	502.6	22.2	21.7
2	Cement Concrete Pavement	M20	29/01/2018	26/02/2018	150.34 X 150.38 X 150.39	22608	8.352	488.3	21.6	
3	Cement Concrete Pavement	M20	29/01/2018	26/02/2018	150.39 X 150.42 X 150.37	22622	8.332	479.6	21.2	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TR/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-02-03** **Date: 06/02/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 4th, 5th and 6th cross roads and surrounding areas in A K Colony Doddabommasandra in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-02-18

Sample ID No : 2018-02-02-03/05

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/02/2018

AEE (VRP) SD

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	30/01/2018	06/02/2018	150.27 X 150.22 X 150.25	22574	8.298	390.5	17.3	17.1
2	Cement Concrete Pavement	M20	30/01/2018	06/02/2018	150.21 X 150.32 X 150.30	22580	8.329	377.1	16.7	
3	Cement Concrete Pavement	M20	30/01/2018	06/02/2018	150.33 X 150.27 X 150.30	22590	8.362	388.5	17.2	

Note:

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R KARTHIK RECHAN
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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TR/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-02-02-03** **Date: 27/02/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 4th, 5th and 6th cross roads and surrounding areas in A K Colony Doddabommasandra in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-02-18
Sample ID No	:	2018-02-02-03/06
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/02/2018

AEE (VRP) SD

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	30/01/2018	27/02/2018	150.28 X 150.34 X 150.25	22593	8.314	483.5	21.4	21.5
2	Cement Concrete Pavement	M20	30/01/2018	27/02/2018	150.34 X 150.28 X 150.39	22593	8.322	499.3	22.1	
3	Cement Concrete Pavement	M20	30/01/2018	27/02/2018	150.39 X 150.40 X 150.32	22619	8.372	472.7	20.9	

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Format No: CP/TR/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-02-03** **Date: 06/02/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 4th, 5th and 6th cross roads and surrounding areas in A K Colony Doddabommasandra in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-02-18

Sample ID No : 2018-02-02-03/07

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/02/2018

AEE (VRP) SD

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	30/01/2018	06/02/2018	150.37 X 150.24 X 150.38	22592	8.341	363.7	16.1	16.2
2	Cement Concrete Pavement	M20	30/01/2018	06/02/2018	150.39 X 150.32 X 150.29	22607	8.361	375.3	16.6	
3	Cement Concrete Pavement	M20	30/01/2018	06/02/2018	150.31 X 150.38 X 150.25	22604	8.344	357.1	15.8	

Note:

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-02-03** **Date: 27/02/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 4th, 5th and 6th cross roads and surrounding areas in A K Colony Doddabommasandra in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-02-18

Sample ID No : 2018-02-02-03/08

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/02/2018

AEE (VRP) SD

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	30/01/2018	27/02/2018	150.27 X 150.34 X 150.38	22592	8.311	499.3	22.1	22.0
2	Cement Concrete Pavement	M20	30/01/2018	27/02/2018	150.29 X 150.32 X 150.39	22592	8.271	506.1	22.4	
3	Cement Concrete Pavement	M20	30/01/2018	27/02/2018	150.41 X 150.38 X 150.35	22619	8.280	486.3	21.5	

Note:

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